

APPLICATION NO: 10/693,046
REPLY TO OFFICE ACTION OF 09/08/2006

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AMENDMENTS TO THE CLAIMS

The claims are listed in the following:

Claims 1-5 (Canceled)

Claim 6 (New) A miniature air compressor comprising:

a motor with a shaft;

a cam shaped crank being pivotally connected to the shaft;

a piston rod with a first end and a second end, the first end being pivotally connected to the crank and the second end being attached with a resilient seal;

a cylinder with a closed end being mounted to the motor with a bracket and being joined to the piston rod for the resilient seal reciprocally moving therein, wherein the closed end is provided with a U shaped inlet and a circular outlet; and

a cover being mounted to the closed end, having a circular input passage and a U shaped output passage respectively corresponding to the inlet and the output passage;

characterized in that a valve sheet is sandwiched between the closed end of the cylinder and the cover, the valve sheet further comprises a U shaped first flapper corresponding to the inlet and the inlet passage respectively and an inverted U shaped second flapper corresponding to the outlet and the outlet passage respectively; a plate shaped first inclining stopper is disposed in the cylinder next to the inlet and a plate shaped second inclining stopper is disposed in the outlet passage such that the first flapper closes the inlet and the second

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flapper closes the outlet passage before the miniature air compressor is in operation;

whereby, once the piston rod is actuated to perform an intake stroke, the first flapper is forced to move toward the inlet to open the inlet against the first inclining stopper for foreign air entering the cylinder via the inlet passage and the inlet and once the piston rod is actuated to perform a discharge stroke, the second flapper is forced to move toward the outlet passage to open the outlet passage against the second inclining stopper for compressed air inside the cylinder being discharged via the outlet and the outlet passage.